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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/383,876	08/26/1999	CHRISTOPHER H. RAEDER	AMDA.316PA	7139
75	590 03/18/2002			
ROBERT J. CRAWFORD CRAWFORD PLLC 1270 NORTHLAND DRIVE			EXAMINER	
			NGUYEN, DUNG V	
SUITE 390 ST. PAUL, MN 55120			ART UNIT	PAPER NUMBER
			3723	
		DATE MAILED: 03/18/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

6) Other:

4) Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6, 8, 10-12, 17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Renteln (USPN 5,664,987). Renteln discloses a method for chemical mechanical polishing a wafer using a CMP apparatus 10 having a polishing table 16 including a polishing pad 202 and a wafer carrier 26 adapted to carry a wafer 200 relative to a center of the polishing table 16 comprising using the polishing pad 202, polishing the wafer 200 at a position relative to the center, determining that the wafer 200 is being polished in a center-offset manner, as a function of the wafer 200 being polished in the center-offset manner, conditioning the pad 202 and positioning the wafer carrier 26 misaligned with respect to the pad 202, wherein the center-offset manner includes a center-fast or center-slow manner, and including inspecting a wafer during the polishing process, removing the wafer from the carrier and manually inspecting the wafer, including arranging a conditioning wheel 220 over the pad 202 and relative to the center of the polishing table. Renteln also discloses an arrangement for chemical mechanical polishing comprising a polishing pad 202 arranged to rotate, a wafer carrier arranged to carry a wafer 200, rotate, and hold the wafer 200 face-down on the polishing pad 202, a detection arrangement adapted to detect whether the wafer is polishing in a center-offset manner, a conditioning device 220 adapted to condition the pad 202, both the conditioning device 220 being arranged, and the wafer carrier being

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misaligned, relative to the polishing pad 202 as a function of the wafer having been polished in a center-offset manner (note Fig. 3, abstract, col. 3, line 41 to col. 5, line 4).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Renteln (USPN 5,664,987) in view of Yang (USPN 6,113,462). Renteln discloses the claimed invention as described above, however, Renteln does not disclose arranging a conditioning wheel comprises thinning the pad. Yang discloses thinning a pad by conditioning (note col. 7, lines 48-60). It would have been obvious to one having ordinary skill in the art at the time the invention was made to arranging a conditioning wheel comprises thinning a pad as disclosed by Yang in order to alter the thickness of a pad.

Claims 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Renteln (USPN 5,664,987) in view of Hu et al (USPN 6,227,947). Renteln disclosed the claimed invention as described above, however, Renteln does not disclose a supply arranged to supply conditioning material to a polishing pad and the conditioning material is water. Hu et al disclose a supply 70 arranged to supply conditioning material to a polishing pad and the conditioning material is water (note Fig. 5, col. 8, lines 29-56). It would have been obvious to one having ordinary skill in the art at the time the invention

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was made to modify the apparatus of Renteln with a supply as disclosed by Hu et al in order to provide a cleaning solution to condition a pad.

Response to Arguments

Applicant's arguments filed on 22 January 2001 have been fully considered but they are not persuasive. In response to applicant's argument that Renteln fails to teach or suggest the wafer misaligned with respect to the pad, Renteln discloses this aspect of the claim in col. 3, lines 39-56 and col. 4, lines 28-31.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung V Nguyen whose telephone number is 703-305-0036. The examiner can normally be reached on M-F, 6:30-3:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J Hail can be reached on 703-308-2687. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

DVN March 13, 2002

> Timothy V. Eley Pamary Examiner

Attachment for PTO-948 (Rev. 03/01, or carlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein Identifying indicia, if provided, should include the title of the invention inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1 136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson. MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made other than correction of informalities, unless the examiner has approved the proposed changes

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a)

Failure to take corrective action within the set period will result in ABANDONMENT of the application.